WEST Search History

DATE: Tuesday, September 30, 2003

Set Name side by side	Query	Hit Count	Set Name result set
DB = USPT, PGP	B,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ	ſ	
L4	5556776	4	L4
L3	L2 with sucrose	1	L3
L2	pts near3 ii	6223	L2
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L1	pts near3 ii	694	L1

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Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20030049804 A1

L4: Entry 1 of 4

File: PGPB

Mar 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030049804

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030049804 A1

TITLE: Corynebacterium glutamicum genes encoding metabolic pathway proteins

PUBLICATION-DATE: March 13, 2003

INVENTOR-INFORMATION:

INVENTOR-INFORMATION:		STATE	COUNTRY	RULE-47
NAME	CITY	PIATE		
Pompejus, Markus	Freinsheim		DE	
	Limburgerhof		DE	
Kroger, Burkhard	-		DE	
Schroder, Hartwig	Nussloch			
Zelder, Oskar	Speyer		DE	
	Limburgerhof		DE	
Haberhauer, Gregor			KR	
Kim, Jun-Won	Seoul			
Lee, Heung-Shick	Seoul		KR	
	Seoul		KR	
Hwang, Byung-Joon	26001			

US-CL-CURRENT: 435/115; 435/183, 435/252.3, 435/320.1, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

KOMC Draw Desc Image

2. Document ID: US 5556776 A

L4: Entry 2 of 4

File: USPT

Sep 17, 1996

US-PAT-NO: 5556776

DOCUMENT-IDENTIFIER: US 5556776 A

TITLE: Sucrase gene derived from coryneform bacteria

Full | Title | Citation | Frant | Review | Classification | Data | Reterence | Sequences | Attachments |

10000 Draw Desc Image

3. Document ID: EP 724017 A2 BR 9600268 A FR 2729970 A1 SK 9600112 A3 JP 08196280 A ZA 9600656 A EP 724017 A3

L4: Entry 3 of 4

File: DWPI

Jul 31, 1996

DERWENT-ACC-NO: 1996-343532

DERWENT-WEEK: 199806

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TITLE: Sucrase gene from Coryneform bacteria - used to prepare recombinant microorganisms for improved prodn. of L-amino acids and nucleic acids by fermentation of sucrose

4.	Document ID: JP 05244	958 A JP 3298135 B2 US 5	5556776 A
L4:	Entry 4 of 4	File: DWPI	Sep 24, 1993
RWENT-	-ACC-NO: 1993-338924 -WEEK: 200246 IT 2003 DERWENT INFORI	AATION LTD	
TLE: N	New sucrase gene derig g site, and encodes so	ved from Coryneform sp	has restriction enzyme
TLE: N	New sucrase gene derig g site, and encodes so	ved from Coryneform spacerase activity	
ITLE: N	New sucrase gene derig g site, and encodes so	ved from Coryneform spacrase activity contain Date Reference Sequences All	tachments KowC Brava Desc Image

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                 September 2003
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NEWS 11
                 September 2003
                 RDISCLOSURE: one FREE connect hour, per account, in
        AUG 15
NEWS 12
                 September 2003
                 TEMA: one FREE connect hour, per account, in
NEWS 13
         AUG 15
                 September 2003
                 Data available for download as a PDF in RDISCLOSURE
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NEWS 14
                 Simultaneous left and right truncation added to PASCAL
        AUG 18
NEWS 15
                 FROSTI and KOSMET enhanced with Simultaneous Left and Righ
        AUG 18
NEWS 16
                 Truncation
                 Simultaneous left and right truncation added to ANABSTR
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         SEP 22
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=> s pts (3a) ii 9200 PTS (3A) II

=> s l1 (5a) sucrose 20 L1 (5A) SUCROSE

=> dup rem 12 PROCESSING COMPLETED FOR L2 7 DUP REM L2 (13 DUPLICATES REMOVED)

=> d 1-7

ANSWER 1 OF 7 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN

2001-06288 BIOTECHDS AN

Gene encoding sucrose phosphoenolpyruvate-sugar transport system enzyme II obtained by cassette ligation-mediated amplification of downstream TI domain of Coryneform bacterium sucrase gene, with sucrose-binding activity;

involving polymerase chain reaction

Izui M; Sugimoto M; Nakamatsu T; Kurahashi O AU

Ajinomoto PA

LO Tokyo, Japan.

WO 2001002584 11 Jan 2001 PΙ

WO 2000-JP4348 30 Jun 2000 AΤ

PRAI JP 1999-189512 2 Jul 1999

Patent DΤ

Japanese LΑ

FS

LA SL ıΤ

English

English

ANSWER 6 OF 7 WPIDS COPY THE 2003 THOMSON DERWENT ON STN L31967-09968G [00] WPIDS ANStabilised nitrofurazone compns. ΤI B00 C00 DC (ROGA) ROGAR LTD PΑ CYC (196800)* CA 763930 A PΙ PRAI CA 1964-897914 19640313 ANSWER 7 OF 7 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN L_3 1966-28322F [00] WPIDS AN Stabilised nitrofurazone compns. ΤI B00 C00 DC (ROGA) ROGAR LTD PΑ CYC 1 (196800)* CA 763930 PΤ PRAI CA 1964-897914 19640313 => d 1-7 kwicANSWER 1 OF 7 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN . . glucose only or sucrose, and can have improved amino acid and L3nucleic acid productivity. In an example, the gene encoding sucrose PTS enzyme II was isolated from the chromosomal DNA of Brevibacterium lactofermentum AJ2036 (FERM BY-734) by Southern hybridization. Then, transformants with sucrose PTS enzyme II gene and with disruption of such gene were constructed for production of glucose and sucrose, indicating that AJ12036 produced both. . . DUPLICATE 1 MEDLINE on STN ANSWER 2 OF 7 . . encoding the proteins of this pathway were identified from the C. L3 acetobutylicum genome sequence, in the order scrAKB encoding Enzyme AΒ II of the sucrose PTS, fructokinase and sucrose 6-phosphate hydrolase respectively. While the pathway for sucrose metabolism is conserved between C. acetobutylicum and C. beijerinckii, the operons show. . DUPLICATE 2 MEDLINE on STN ANSWER 3 OF 7 L3 AΒ from the DNA fragment is related to beta-glucoside and sucrose enzymes II of PTS from various bacteria.

. . but not a glucose-PTS, and that the amino acid sequence deduced

ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS on STN L3

. . distribution of phosphotransferase system (PTS)-sugars in B. subtilis, enzyme components of the PTS, and the amino acid sequences of AΒ three PTS enzymes II involved in sucrose metab.

COPYRIGHT 2003 CSA on STN DUPLICATE 3 ANSWER 5 OF 7 LIFESCI . . phosphorylate glucose and sucrose. Glucose activity was L3 constitutive, while phosphorylation of sucrose was inducible. Competition AΒ experiments indicated that separate phosphotransferase (PTS) enzymes II were present for glucose and sucrose, but it appeared that maltose was hydrolysed by an inducible extracellular maltase and then transported by the glucose PTS. S..

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AΒ esp. for addn. to poultry

drinking water. (II) is pref. Pluronic F-68 of av. mol. wt. 8750. Carriers include dextrose, lactose and sucrose. Typically at least 1 pt. (II) mixed with 20 pts. (I).

ANSWER 7 OF 7 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN L3

AB

esp. for addn. to poultry drinking water.

(II) is pref. Pluronic F-68 of av. mol. wt. 8750. Carriers include dextrose, lactose and sucrose. Typically at least 1 pt. (II) mixed with 20 pts. (I).

=> d 3-5 ab

DUPLICATE 2 MEDLINE on STN ANSWER 3 OF 7 L_3 In order to confirm the presence of a phosphoenolpyruvate (PEP)-dependent AΒ sugar-phosphotransferase system (PTS) in the mollicute Acholeplasma florum we studied the ability of cell free extracts of this organism to phosphorylate glucose and/or fructose in the presence of PEP. We also cloned and sequenced a DNA fragment coding for a putative polypeptide showing significant similarity with the enzyme II of the beta-glucoside PTS of Escherichia coli. Taken together, these results show that A florum possesses a fructose-PTS, but not a glucose-PTS, and that the amino acid sequence deduced from the DNA fragment is related to beta-glucoside and sucrose enzymes II of PTS from various bacteria.

ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS on STN

A review with 29 refs. on the distribution of phosphotransferase system (PTS)-sugars in B. subtilis, enzyme components of the PTS, and the amino acid sequences of three PTS enzymes II involved in sucrose metab.

COPYRIGHT 2003 CSA on STN DUPLICATE 3 ANSWER 5 OF 7 LIFESCI L3Toluene-treated cells of Selenomonas ruminantium HD4 used AΒ phosphoenolpyruvate (PEP) to phosphorylate glucose and sucrose. Glucose activity was constitutive, while phosphorylation of sucrose was inducible. Competition experiments indicated that separate phosphotransferase (PTS) enzymes II were present for glucose and sucrose, but it appeared that maltose was hydrolysed by an inducible extracellular maltase and then transported by the glucose PTS. S. ruminantium HD4 grew more slowly on maltose than glucose or sucrose and the specific activity of maltase was rate limiting. The maltase was competitively inhibited by glucose and sucrose. Xylose was not phosphorylated by PEP or ATP, and its uptake was inhibited by the protonophore carbonyl cyanide m-chlorophenylhydrazone (CCCP), and by chlorhexidine diacetate. The absence of PEP-dependent phosphorylation and the effects of CCCP suggested that xylose was transported by an active transport mechanism.

=> dis his

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L2 20 S L1 (5A) SUCROSE
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Release 33, September 2003, and updates up to 28-Sep-2003

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2.7.1.69

 ${\tt Protein-N(pi)-phosphohistidine-sugar\ phosphotransferase.}$

(AN: Enzyme II of the phosphotransferase system.

PTS permease.

PEP-sugar phosphotransferase enzyme II.)

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